

1 ABSTRACT

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3 Optical alignment apparatus is disclosed that includes a  
4 heatsink positioned on a supporting substrate and a laser  
5 positioned on the heat sink. The laser defines a light emitting  
6 axis substantially parallel to the surface of the supporting  
7 substrate. A conductive layer is formed on the surface of the  
8 supporting substrate adjacent the heat sink and a dielectric  
9 layer is formed on the conductive layer. The conductive layer  
10 and the dielectric layer define a selected bondline thickness.  
11 An optical block is fixedly mounted on the dielectric layer so as  
12 to receive light along an optical axis substantially parallel  
13 with the surface of the supporting substrate. The bondline  
14 thickness is selected to align the optical axis of the optical  
15 block with the optical axis of the light generating component.